

ATI Allvac® Ti-17 Titanium Alloy, Heat Treatment: 899°C (1650°F) + Age

Category : Metal , Nonferrous Metal , Titanium Alloy , Alpha/Beta Titanium Alloy

Material Notes:

Data provided by Allvac.Applications: Compressor discs, heavy section forgings for gas turbine engine components. High tensile strength and good fracture toughness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Ti-17-Titanium-Alloy-Heat-Treatment-899C-1650F-Age.php

Physical Properties	Metric	English	Comments
Density	4.65 g/cc	0.168 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	351	351	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	382	382	Estimated from Rockwell C value.
Hardness, Rockwell C	38	38	
Hardness, Vickers	367	367	Estimated from Rockwell C value.
Tensile Strength, Ultimate	1138 MPa	165100 psi	
Tensile Strength, Yield	1069 MPa @Strain 0.200 %	155000 psi @Strain 0.200 %	
Elongation at Break	12 %	12 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.0 %	5.0 %	
Carbon, C	0.030 %	0.030 %	
Chromium, Cr	4.0 %	4.0 %	
Copper, Cu	0.050 %	0.050 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	0.15 %	0.15 %	
Manganese, Mn	0.050 %	0.050 %	
Molybdenum, Mo	4.0 %	4.0 %	

Component Elements Properties	Metric	English	Comments
Nitrogen, N	0.020 %	0.020 %	
Oxygen, O	0.11 %	0.11 %	
Tin, Sn	2.0 %	2.0 %	
Titanium, Ti	83 %	83 %	as balance
Zirconium, Zr	2.0 %	2.0 %	

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